

## **ABSTRACT**

A drill bit configures hydraulic streams from the bit nozzles for the particular cutting structure to be cleaned based on the cutting structure location and geometry. The projected impingement location for each hydraulic stream projected fluid path is customized for a corresponding roller cone, with each nozzle or nozzle receptacle being individually positioned according to improve cone cleaning. At least two nozzles or nozzle receptacles should differ on the drill bit.